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SOM-**type** and anti-Hebbian **learning**. Akira Date(P) and Koji Kurata ... Analysis of
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www-jnns2004.acs.i.kyoto-u.ac.jp/JNNS2004program.html - 421k - Cached - Similar pages

From druck@afit.af.mil Tue Feb 1 21:48:48 EST 1994 Article: 14528 ...
Pulse Neural Networks Session Chair: John Caulfield, A&M University, Alabama 15. ...
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biomedical signals in motion **discrimination**, The international ...
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M.Tanvir ISLAM and Yoichi OKABE, "Gradient **Type Learning** Rules for Neural ... T.
Kanamaru and Y. Okabe, "Stochastic resonance in the **pulse neural** network ...
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title: Transmission-**type** X-ray Linear Polarizer with Perfect Crystals ... title: Asynchronous
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... 129 6.1.3 **Training** patterns . . ... how information can be communicated in the timing of
single spikes, what **types** of compu- ... **Learning** with spiking neurons is also ...
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List of References
"**Discrimination** of Buried Plastic and Metal Objects in Subsurface
Soil," ... 688-695 (hardware implementation of a **pulse neural** network). ...
www.jhuapl.edu/SPSA/Pages/References-List_Ref.htm - 146k -
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International Conference on Neural Information Processing
1998
... **Classification** Error **Learning** and Its Application to Neural Networks. ... Lei Xu: BKYY
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Computer User Action **Learning** with **Pulse Neural** Networks and Ultrasonic Wave
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0039 Tracking Control in Self-Transfer-**Type** Automatic Pouring Robot Considering
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(25) Close-**class**-set **discrimination** method for large-**class**-set pattern ... 9:30AM A **pulse**
neural network **learning** algorithm for POMDP environment (IJCNN1260 ...
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Modelling relative recency **discrimination** tasks using a stochastic ...
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Diffusible GasNets - new ANN **type** Pulse Coupled Neural Networks - CAOS Correlation

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Publications
A New Neural Network System for Arrhythmia's **Classification** N. Izeboudjen, A.
Farah; Auditory Stimulus **Discrimination** from MEG Data T. Lukka, B. Schoner, ...
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The research interest
Convergence theorems for a **class** of **learning** algorithm with VLRPs. ... [12] Feng
J., Brown D., and Tirozzi B. (1999) A model of **pulse neural** networks in: ...
www.dcs.warwick.ac.uk/~feng/full%20list.html - 131k - Cached - Similar pages

IEEE Computational Intelligence Society - Ottawa Chapter
His recent work focuses on machine **learning** applied to natural language. ...
how it can be used to the design of modular random-**pulse neural** networks. ...
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Oakes Michael Philip, Automatic **Discrimination** Between American and British Texts,
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ICSC Symposium on Neural Computation 1998
Tutorial Papers. Vera Kurková: Approximation of Functions by Neural Networks.
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www.informatik.uni-trier.de/~ley/db/conf/nc/nc1998.html - 69k - Cached - Similar pages

ICSC Symposium on Neural Computation 1998
... **Tutorial** Papers. ... 559-564 BibTeX; Andrzej Janczak: Gradient Descent and Recursive
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www.sigmod.org/dblp//db/conf/nc/nc1998.html - 69k - Supplemental Result - Cached - Similar pages

CSI 801 Project Report
It is interesting that the best **discrimination** is made relatively early, ...
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The **neuron** has two modes of operation; the **training** mode and the using
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They offer ideal solutions to a variety of **classification** problems such as ... These **pulses**
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1 The UCLA Brain Research Institute data processing laboratory
T. Estrin
December 1987 **Proceedings of ACM conference on History of medical informatics**

Full text available: 📄 pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

The Brain Research Institute is an interdisciplinary research unit of the UCLA Medical School, supporting basic research in fields which contribute to an understanding of brain mechanisms and behavior. In 1960 the School of Medicine was relatively young, having graduated its first class in 1955. Among the early professors to affiliate with the new medical school was Dr. H. W. Magoun, whose own research interests were in the nervous system. Under his leadership, a formal proposal was prepare ...

2 Improving human haptic performance in normal and impaired human populations through unattended activation-based learning
Hubert R. Dinse, Tobias Kalisch, Patrick Ragert, Burkhard Pleger, Peter Schwenkreis, Martin Tegenthoff
April 2005 **ACM Transactions on Applied Perception (TAP)**, Volume 2 Issue 2

Full text available: 📄 pdf(15.56 MB)   Additional Information: full citation, abstract, references, index terms

Human haptic performance is not fixed, but subject to major alterations through learning processes. We describe a new stimulation protocol that allows to improve haptic performance in humans in a highly systemic way through unattended activation-based learning. The so-called coactivation protocol is based upon temporal constraints of Hebbian learning where simultaneity plays a key role for the induction of plastic changes. We provide an overview about the potential of coactivation by summarizing ...

Keywords: Learning, aging, cognition, cortical reorganization, learn-ware, plasticity, therapy

3 Multimedia data mining: Automatic classification of speech and music using neural networks
M. Kashif Saeed Khan, Wasfi G. Al-Khatib, Muhammad Moinuddin
November 2004 **Proceedings of the 2nd ACM international workshop on Multimedia databases**

Full text available: 📄 pdf(1.67 MB)   Additional Information: full citation, abstract, references, index terms

The importance of automatic discrimination between speech signals and music signals has

evolved as a research topic over recent years. The need to classify audio into categories such as speech or music is an important aspect of many multimedia document retrieval systems. Several approaches have been previously used to discriminate between speech and music data. In this paper, we propose the use of the mean and variance of the discrete wavelet transform in addition to other features that have ...

Keywords: audio features, audio signal processing, content-based indexing, music speech classification, neural networks

4 VC dimension of an integrate-and-fire neuron model
Anthony M. Zador, Barak A. Pearlmutter
January 1996 **Proceedings of the ninth annual conference on Computational learning theory**
Full text available: pdf(823.13 KB)   Additional Information: full citation, references, index terms

5 Health aspects of wireless communication: auditory perception of microwaves --- hearing microwaves
James C. Lin
April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 2
Full text available: pdf(30.99 KB)   Additional Information: full citation, references, citings, index terms

6 Using artificial neural nets to predict academic performance
Al Cripps
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**
Full text available: pdf(543.55 KB)   Additional Information: full citation, references, index terms

Keywords: academic, neural networks, prediction

7 Prediction of attention in autism from single-trial EEG using artificial neural networks
Matthew Belmonte
August 1997 **ACM SIGBIO Newsletter**, Volume 17 Issue 2
Full text available: pdf(1.07 MB)   Additional Information: full citation, abstract, index terms

Two-layer and three-layer feed-forward artificial neural networks were trained to predict behvioural performance from singletrial EEG in autistic and normal subjects in a task involving response to rare stimuli and shifting of attention between vision and audition. Eyeblink artefacts were removed from the data using a frequency-domain filter. Performances of the networks on separate test sets varied across subjects but were usually at least 80%. The networks usually converged faster and attained ...

Keywords: EEG, ERP, P3, artefact correction, attention, autism, eyeblink, neural networks

8 Supervised adaptive resonance networks
R. S. Baxter
May 1991 **Proceedings of the conference on Analysis of neural network applications**
Full text available: Additional Information:

pdf(1.44 MB)   full citation, references, index terms

9 Poster session 1: Generating decision regions in analog measurement spaces

Haralampos-G. D. Stratigopoulos, Yiorgos Makris
April 2005 **Proceedings of the 15th ACM Great Lakes symposium on VLSI**

Full text available: pdf(375.78 KB)   Additional Information: full citation, abstract, references, index terms

We develop a neural network that learns to separate the nominal from the faulty instances of a circuit in a measurement space. We demonstrate that the required separation boundaries are, in general, non-linear. Unlike previous solutions which draw hyperplanes, our network is capable of drawing the necessary non-linear hypersurfaces. The hypersurfaces translate to test criteria that are strongly correlated to functional tests. A feature selection algorithm interacts with the network to identify a ...

Keywords: analog circuits, implicit functional test, neural networks

10 Interaction in the real world: Ambient touch: designing tactile interfaces for handheld devices

Ivan Poupyrev, Shigeaki Maruyama, Jun Rekimoto
October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Full text available: pdf(3.71 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper investigates the sense of touch as a channel for communicating with miniature handheld devices. We embedded a PDA with a TouchEngine™ --- a thin, miniature lower-power tactile actuator that we have designed specifically to use in mobile interfaces (Figure 1). Unlike previous tactile actuators, the TouchEngine is a universal tactile display that can produce a wide variety of tactile feelings from simple clicks to complex vibrotactile patterns. Using the TouchEngine, we bega ...

Keywords: mobile devices and interfaces, tactile feedback

11 A modular software real-time brain wave detection system

A. A. Arroyo, D. G. Childers
April 1982 **Proceedings of the 20th annual Southeast regional conference**

Full text available: pdf(376.12 KB)   Additional Information: full citation, abstract, references

The philosophy behind the modular design and implementation of a computer-driven facility to collect and process EEG records is illustrated. The software modules are stand-alone programs in their own right that can externally be reconfigured into the components to solve a more complex problem. As such, they behave like the "commands" of a command line interpreter (CLI). They are easily invoked by the use of operating system macros without increasing the demands on the system operator. By the use ...

Keywords: "menus", Real-time signal processing, command macros, common database, external controls, feature extraction classification, single EEG records, structured design

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IEE CNF	IEE Conference Proceeding
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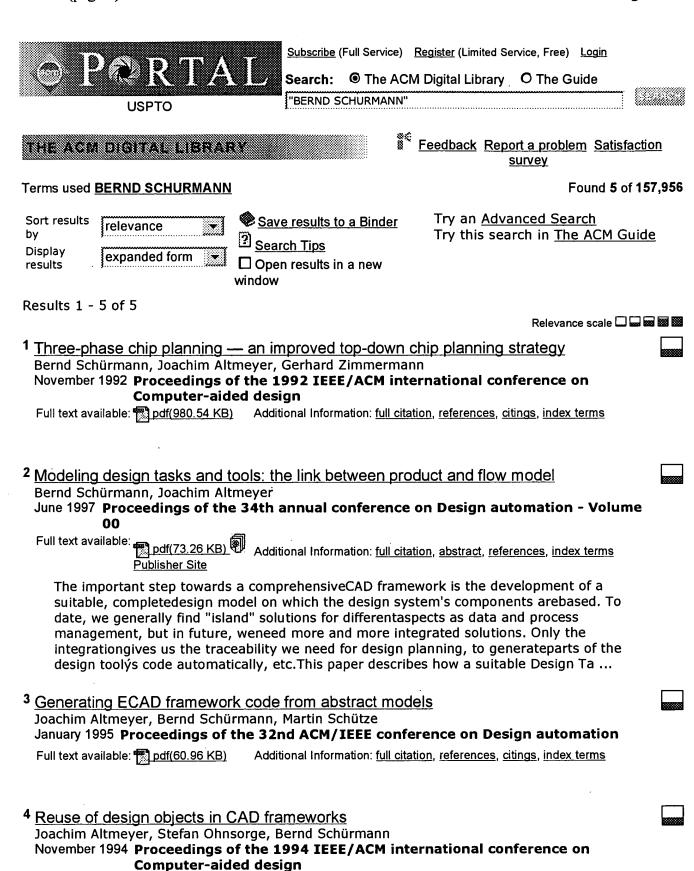
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The reuse of well-tested and optimized design objects is an important aspect for decreasing design times, increasing design quality, and improving the predictability of designs. Reuse spans from the selecting cells from a library up to adapting already designed objects.In this

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We present an improved data model that reflects the whole VLSI design process including bottom-up and top-down design phases. The kernel of the model is a static version concept that describes the convergence of a design. The design history which makes the semantics of most other version concepts, is modeled explicitly by additional object classes (entities types) but not by the version graph itself. Top-down steps are modeled by splitting a design object into requirements and realizations. ...

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October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

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